

## SEQUENCE LISTING

<110> Chernysh, Sergey Ivanovich  
 <120> Antitumoral and antiviral peptides  
 <130> 10/585,715  
 <160> 23  
 <170> PatentIn version 3.5  
 <210> 1  
 <211> 13  
 <212> PRT  
 <213> Artificial sequence  
 <220>  
 <223> Synthetic construct designed on the basis of the peptides SEQ ID NO 2-12  
 comparison  
 <400> 1

His Gly Val Ser Gly Trp Gly Gln His Gly Thr His Gly  
 1 5 10

<210> 2  
 <211> 264  
 <212> PRT  
 <213> Tragelaphus strepsiceros  
 <220>  
 <221> SITE  
 <222> (80)..(91)  
 <223> fragment of Trast prion protein 1 precursor (PrP1 Trast)  
 <300>  
 <308> Swissprot/P40242  
 <309> 1995-02-01  
 <313> (80)..(91)  
 <400> 2

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
 1 5 10 15

Met Trp Ser Asp Val Ala Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
 20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
 35 40 45

Gly Asn Arg Tyr Pro Ser Gln Gly Gly Gly Gly Trp Gly Gln Pro His  
 50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
 65 70 75 80

# Substitute Sequence Listing

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys  
100 105 110

Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala  
115 120 125

Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala  
130 135 140

Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr  
145 150 155 160

Tyr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro  
165 170 175

Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn  
180 185 190

Ile Thr Val Lys Gln His Thr Val Thr Thr Thr Thr Lys Gly Glu Asn  
195 200 205

Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met  
210 215 220

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Glu Ala Tyr Tyr Gln Arg Gly  
225 230 235 240

Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser  
245 250 255

Phe Leu Ile Phe Leu Ile Val Gly  
260

<210> 3  
<211> 264  
<212> PRT  
<213> Tragelaphus strepsiceros

<220>  
<221> SITE  
<222> (96)..(108)  
<223> fragment of Trast prion protein 1 precursor (PrP1 Trast)

<300>  
<308> Swissprot/P40242  
<309> 1995-02-01  
<313> (96)..(108)

<400> 3

# Substitute Sequence Listing

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
1 5 10 15

Met Trp Ser Asp Val Ala Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
35 40 45

Gly Asn Arg Tyr Pro Ser Gln Gly Gly Gly Gly Trp Gly Gln Pro His  
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys  
100 105 110

Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala  
115 120 125

Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala  
130 135 140

Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr  
145 150 155 160

Tyr Arg Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro  
165 170 175

Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn  
180 185 190

Ile Thr Val Lys Gln His Thr Val Thr Thr Thr Thr Lys Gly Glu Asn  
195 200 205

Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met  
210 215 220

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Glu Ala Tyr Tyr Gln Arg Gly  
225 230 235 240

Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser  
245 250 255

# Substitute Sequence Listing

Phe Leu Ile Phe Leu Ile Val Gly  
260

<210> 4  
<211> 256  
<212> PRT  
<213> Tragelaphus strepsiceros

<220>  
<221> SITE  
<222> (64)..(75)  
<223> fragment of Trast prion protein 2 precursor (PrP2 Trast)

<300>  
<308> Swissprot/P40243  
<309> 1995-02-01  
<313> (64)..(75)

<400> 4

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
1 5 10 15

Met Trp Ser Asp Val Ala Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Glu Gly Gly Asp Trp Gly Gln Pro His  
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Val Gly Gly Trp Gly Gln Pro His  
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly  
85 90 95

Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met  
100 105 110

Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu  
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe  
130 135 140

Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr  
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn  
165 170 175

# Substitute Sequence Listing

Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val  
180 185 190

Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met  
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu  
210 215 220

Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser  
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly  
245 250 255

<210> 5  
<211> 256  
<212> PRT  
<213> Tragelaphus strepsiceros

<220>  
<221> SITE  
<222> (72)..(83)  
<223> fragment of Trast prion protein 2 precursor (PrP2 Trast)

<300>  
<308> Swissprot/P40243  
<309> 1995-02-01  
<313> (72)..(83)

<400> 5

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
1 5 10 15

Met Trp Ser Asp Val Ala Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Glu Gly Gly Asp Trp Gly Gln Pro His  
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Val Gly Gly Trp Gly Gln Pro His  
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Gly Trp Gly Gln Gly  
85 90 95

Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met

# Substitute Sequence Listing

100

105

110

Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu  
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe  
130 135 140

Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr  
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn  
165 170 175

Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val  
180 185 190

Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met  
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu  
210 215 220

Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser  
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly  
245 250 255

<210> 6  
<211> 256  
<212> PRT  
<213> Tragelaphus strepsiceros  
  
<220>  
<221> SITE  
<222> (88)..(100)  
<223> fragment of Trast prion protein 2 precursor (PrP2 Trast)  
  
<300>  
<308> Swissprot/P40243  
<309> 1995-02-01  
<313> (88)..(100)  
  
<400> 6

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
1 5 10 15

Met Trp Ser Asp Val Ala Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
20 25 30

# Substitute Sequence Listing

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Glu Gly Gly Asp Trp Gly Gln Pro His  
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Val Gly Gly Trp Gly Gln Pro His  
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly  
85 90 95

Gly Thr His Gly Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met  
100 105 110

Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu  
115 120 125

Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg Pro Leu Ile His Phe  
130 135 140

Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met Tyr Arg Tyr  
145 150 155 160

Pro Asn Gln Val Tyr Tyr Arg Pro Val Asp Gln Tyr Ser Asn Gln Asn  
165 170 175

Asn Phe Val His Asp Cys Val Asn Ile Thr Val Lys Gln His Thr Val  
180 185 190

Thr Thr Thr Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Ile Lys Met  
195 200 205

Met Glu Arg Val Val Glu Gln Met Cys Ile Thr Gln Tyr Gln Arg Glu  
210 215 220

Ser Glu Ala Tyr Tyr Gln Arg Gly Ala Ser Val Ile Leu Phe Ser Ser  
225 230 235 240

Pro Pro Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly  
245 250 255

<210> 7  
<211> 264  
<212> PRT  
<213> Bos taurus

<220>  
<221> SITE  
<222> (96)..(108)

Substitute Sequence Listing

<223> fragment of Bovine prion protein 1 precursor (Prion bovin)

<300>

<308> Swissprot/P10279

<309> 1989-03-10

<313> (96)..(108)

<400> 7

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His  
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys  
100 105 110

Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala  
115 120 125

Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala  
130 135 140

Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr  
145 150 155 160

Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro  
165 170 175

Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn  
180 185 190

Ile Thr Val Lys Glu His Thr Val Thr Thr Thr Thr Lys Gly Glu Asn  
195 200 205

Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met  
210 215 220



# Substitute Sequence Listing

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr Gln Arg Gly  
225 230 235 240

Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser  
245 250 255

Phe Leu Ile Phe Leu Ile Val Gly  
260

<210> 8  
<211> 264  
<212> PRT  
<213> Bos taurus

<220>  
<221> SITE  
<222> (64)..(75)  
<223> fragment of Bovine prion protein 1 precursor (Prio bovin)

<300>  
<308> Swissprot/P10279  
<309> 1989-03-10  
<313> (64)..(75)

<400> 8

Met Val Lys Ser His Ile Gly Ser Trp Ile Leu Val Leu Phe Val Ala  
1 5 10 15

Met Trp Ser Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly  
20 25 30

Gly Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly  
35 40 45

Gly Asn Arg Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His  
50 55 60

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
65 70 75 80

Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His  
85 90 95

Gly Gly Gly Gly Trp Gly Gln Gly Gly Thr His Gly Gln Trp Asn Lys  
100 105 110

Pro Ser Lys Pro Lys Thr Asn Met Lys His Val Ala Gly Ala Ala Ala  
115 120 125

Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala  
130 135 140

# Substitute Sequence Listing

Met Ser Arg Pro Leu Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr  
145 150 155 160

Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro  
165 170 175

Val Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn  
180 185 190

Ile Thr Val Lys Glu His Thr Val Thr Thr Thr Thr Lys Gly Glu Asn  
195 200 205

Phe Thr Glu Thr Asp Ile Lys Met Met Glu Arg Val Val Glu Gln Met  
210 215 220

Cys Ile Thr Gln Tyr Gln Arg Glu Ser Gln Ala Tyr Tyr Gln Arg Gly  
225 230 235 240

Ala Ser Val Ile Leu Phe Ser Ser Pro Pro Val Ile Leu Leu Ile Ser  
245 250 255

Phe Leu Ile Phe Leu Ile Val Gly  
260

<210> 9  
<211> 253  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)..(66)  
<223> fragment of human prion protein precursor (PrP Human)

<300>  
<308> Swissprot/P04156  
<309> 1986-11-01  
<313> (52)..(66)

<400> 9

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp  
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn  
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg  
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly

# Substitute Sequence Listing

50

55

60

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly  
65 70 75 80

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His  
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met  
100 105 110

Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr  
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp  
130 135 140

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln  
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val  
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr  
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg  
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala  
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val  
225 230 235 240

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly  
245 250

<210> 10  
<211> 253  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)..(83)  
<223> fragment of human prion protein precursor (PrP Human)

<300>  
<308> Swissprot/P04156  
<309> 1986-11-01

# Substitute Sequence Listing

<313> (69)..(83)

<400> 10

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp  
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn  
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg  
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly  
50 55 60

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly  
65 70 75 80

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His  
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met  
100 105 110

Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr  
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp  
130 135 140

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln  
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val  
165 170 175

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr  
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg  
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala  
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val  
225 230 235 240

# Substitute Sequence Listing

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly  
245 250

<210> 11  
<211> 253  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (85)..(97)  
<223> fragment of human prion protein precursor (PrP Human)

<300>  
<308> Swissprot/P04156  
<309> 1986-11-01  
<313> (85)..(97)

<400> 11

Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr Trp  
1 5 10 15

Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly Trp Asn  
20 25 30

Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly Gly Asn Arg  
35 40 45

Tyr Pro Pro Gln Gly Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly  
50 55 60

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly  
65 70 75 80

Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln Gly Gly Gly Thr His  
85 90 95

Ser Gln Trp Asn Lys Pro Ser Lys Pro Lys Thr Asn Met Lys His Met  
100 105 110

Ala Gly Ala Ala Ala Ala Gly Ala Val Val Gly Gly Leu Gly Gly Tyr  
115 120 125

Met Leu Gly Ser Ala Met Ser Arg Pro Ile Ile His Phe Gly Ser Asp  
130 135 140

Tyr Glu Asp Arg Tyr Tyr Arg Glu Asn Met His Arg Tyr Pro Asn Gln  
145 150 155 160

Val Tyr Tyr Arg Pro Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val  
165 170 175

# Substitute Sequence Listing

His Asp Cys Val Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr  
180 185 190

Thr Lys Gly Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg  
195 200 205

Val Val Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala  
210 215 220

Tyr Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val  
225 230 235 240

Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly  
245 250

<210> 12  
<211> 13  
<212> PRT  
<213> Calliphora vicina

<220>  
<223> Alloferon-1

<300>  
<308> Swissprot/P83412  
<309> 2003-06-27  
<313> (1)..(13)

<400> 12

His Gly Val Ser Gly His Gly Gln His Gly Val His Gly  
1 5 10

<210> 13  
<211> 5  
<212> PRT  
<213> Artificial sequence

<220>  
<223> fragment of peptide SEQ ID NO 1

<400> 13

His Gly Val Ser Gly  
1 5

<210> 14  
<211> 4  
<212> PRT  
<213> Tragelaphus strepsiceros, Bos taurus, Homo sapiens

<220>  
<221> SITE  
<222> (1)..(4)  
<223> fragment of peptides SEQ ID NO 2, 4, 8, 10, 11

# Substitute Sequence Listing

<400> 14

His Gly Gly Gly  
1

<210> 15

<211> 4

<212> PRT

<213> Tragelaphus strepsiceros

<220>

<221> SITE

<222> (1)..(4)

<223> fragment of peptide SEQ ID NO 5

<400> 15

His Val Gly Gly  
1

<210> 16

<211> 5

<212> PRT

<213> Tragelaphus strepsiceros, Bos taurus

<220>

<221> SITE

<222> (1)..(5)

<223> fragment of peptide SEQ ID NO 3, 7

<400> 16

His Gly Gly Gly Gly  
1 5

<210> 17

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)..(5)

<223> fragment peptide SEQ ID NO 9

<400> 17

Gln Gly Gly Gly Gly  
1 5

<210> 18

<211> 5

<212> PRT

<213> Artificial sequence

<220>

<221> SITE

<222> (9)..(13)

<223> fragment of peptide SEQ ID NO 1

# Substitute Sequence Listing

<400> 18

His Gly Thr His Gly  
1 5

<210> 19

<211> 5

<212> PRT

<213> Tragelaphus strepsiceros

<220>

<221> SITE

<222> (9)..(13)

<223> fragment of peptide SEQ ID NO 3

<400> 19

Gly Gly Thr His Gly  
1 5

<210> 20

<211> 5

<212> PRT

<213> Tragelaphus strepsiceros

<220>

<221> SITE

<222> (8)..(12)

<223> fragment of peptide SEQ ID NO 4

<400> 20

Gly Gly Thr His Gly  
1 5

<210> 21

<211> 5

<212> PRT

<213> Tragelaphus strepsiceros, Bos taurus

<220>

<221> SITE

<222> (8)..(12)

<223> fragment of peptide SEQ ID NO 2, 5, 8

<400> 21

Pro His Gly Gly Gly  
1 5

<210> 22

<211> 7

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)..(15)

<223> fragment of peptide SEQ ID NO 9, 10



# Substitute Sequence Listing

<400> 22

Pro His Gly Gly Gly Trp Gly  
1 5

<210> 23

<211> 6

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)..(13)

<223> fragment of peptide SEQ ID NO 11

<400> 23

Gly Gly Gly Thr His Ser  
1 5